

## Product datasheet for MR217424

### Tcerg1 (NM\_001039474) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tcerg1 (NM_001039474) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tcerg1
Synonyms:	2410022J09Rik; 2900090C16Rik; AI428505; ca150; CA150b; FBP23; FBP28; p144; Taf2s
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217424 representing NM_001039474, <b>codon optimized</b> . <b>Due to the complexity of NM_001039474, the ORF clone is codon optimized for mammalian Expression.</b> <b>The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.</b>

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGAGCGGGGAGGAGACGGGGCGAGGGCGAGAGATTCAACCCAGGGGAGCTGCGGATGGCTCAGC  
AGCAGGCGCTGAGATTCCGCGGACCTGCACCACCTCCAACGCTGTGATGAGGGGCCACCACTCAT  
GAGGCCACCCCCCTTTGGCATGATGAGGGACCCCGCCACCACGCCACCTTTTGGCCGCCCT  
CCGTTTCGATCAAACATGCCCAATGCCACCTCCCGCGGGATTCTCTCCAATGGGGCCCCGCATC  
TCCAGCGACCCCTTTTATGCCTCCACCATGGGGCCATGCCCCCTCCGCCCGCATGATGTTCCACC  
AGGCATGCCTCCCGGACAGCACCAGGCGCACCTGCTCTGCCCGCAGAGAAGAGATCTGGTGGAGAAT  
AAGACACCAGACGAAAAGTGTACTACTATAACGCTCGAACTCGGGAGAGTGCCTGGACTAAGCCCGATG  
GAGTGAAGTTATCCAACAATCCGAGCTCAGCCCATGCTGGCAGCTCAGGCCAGGTTCCAGGCCAGGC  
GCAGGCCAGGCTCAGGCCAGGCACAAGCCAGGCACAGGCCAGGCCAGGCCAGGCACAGGCTCAAGCTCAG  
GCTCAAGCGCAGGCACAGGCTCAAGCCAGGCCAGGCCAGGCCAGGCCAGGCCAGGCCAGGCCAGGCTC  
AGGCCAGGCACAGGCACAAGCAGGCTCAAGCACAAGCCAGGCCAGGCCAGGCTCAAGTGCAGGCCAGGC  
AGTCGGAGCGCCACCCCACTACCTCCAGTCTGCCAGCAGTATCAACTCCAGGCCACTAGCACA  
CCCTCTCAACAAGTCCACCACCACAGCCACGAGCGTGGCGAGACTGTGAGCACCCCACTACGC  
AAGATCAGACCCCTCATCAGCTGTCAGCGTTGCAACTCTACCGTCTCAGTCAGTGTCCAGCTCTAC  
AGCCACGCCAGTACAGACAGTCCCTCAACTCACCCAGACTCTGCCTCCCGGGTGCCTCACAGTGTG  
CCCAACCGCTGCAGCTATACCGCTTCCCTCCGGTATGGTCCCCATTCGGTCCCTCTGCCG



[View online »](#)

GAATGCCGATCCCCTTGCCAGGAGTAGCAATGATGCAAATCGTTTCTTGTCCATATGTAAGACTGTCCG  
TACCACTAAGACCGGAGTGTGCCTGGCATGGCACCACCAATCGTGCCCATGATCCATCCTCAGGTCCGC  
ATTGCCGTTCCCTGCCACACTCGCTGGTGCCACCGCGTGAGTGAATGGACCGAATAACAAGACGGCTG  
ATGGTAAGACATATTACTACAATAACCGGACACTGGAATCAACCTGGGAAAAACCTCAGGAGCTCAAGGA  
GAAAGAAAACTTGACGAGAAGATCAAAGAACCAATTAAGGAAGCCTCCGAGGAGCCCCTTCTATGGAG  
ACTGAAGAGGAAGATCCAAAGGAAGAACCGGTGAAGGAGATCAAGGAGGAGCCTAAGGAGGAGGAGATGA  
CTGAGGAGGAAAAAGGCTGCCAAAAAGCCAAGCCTGTCGCTACAACACCAATCCCCGGCACGCCTTGGTG  
CGTGGTCTGGACAGGTGATGAGAGAGTCTTCTTACAATCCAACCACTAGGCTCAGTATGTGGGACAGG  
CCAGACGACCTGATCGGTGCGCGCGACGTTGATAAGATTATCCAGGAGCCACCCACAAGAGGGCCTGG  
AGGATATGAAAAAGTTGAGGCACCTGCACCGACCATGCTCTCCATACAGAAGTGGCAGTTCTCCATGAG  
CGCCATAAAGGAGGAGCAGGAAGTATGGAGGAGATGAACGAGGACGAACCTATCAAGGCCAAAAAGCGG  
AAACGGGACGATAACAAGGATATCGACTCTGAGAAGGAGGACGCCATGGAGGCCGAAATCAAAGCAGCTC  
GCGAAAGGGCCATTGTGCCTCTGGAGGCACGGATGAAGCAATTTAAAGACATGCTTCTTGAGAGAGGAGT  
GTCTGCTTTCAGCACCTGGGAAAAAGAGCTGCACAAAATTGTCTTCGACCCCGCTATCTGCTGCTCAAC  
CCAAAAGAAAGGAAGCAAGTGTGTTGATCAATACGTGAAAACAGGCGGAGGAAGAGAGGAGAGAGAAGA  
AGAATAAGATTATGCAGGCCAAGGAAGACTTTAAAAAGATGATGGAAGAGGCAAAATTTAATCCCGGAGC  
CACTTTTTCTGAGTTCGCCGCCAAAACACGCGAAAGATAGCAGGTTCAAGGCAATTTGAAAAGATGAAGGAC  
CGCGAGGCCCTTTTTAACGAGTTCGTCGACGACGCGAGAAAGAAAGAGAAGGAGGACAGCAAGACTAGAG  
GCGAAAAAATCAAATCCGATTTCTCGAGCTTCTGAGCAACCACCACCTCGACTCCCAGAGTTCGTTGGAG  
CAAAGTGAAGACAAGGTCGAGTCTGACCCTAGGTACAAGCCGTTGACTCTTCCAGCATGAGAGAGGAC  
CTGTTTAAAGCAGTACATTGAGAAGATTGCTAAAAACCTCGACTCCGAGAAGGAAAAAGAACTGGAGCGCC  
AGGCCAGGATAGAGGCCAGTTTGAGAGAACGGGAACGGGAGGTGCAGAAGGCCAGGAGTGAGCAGACGAA  
AGAAATTGACAGAGAACGAGACAAACACAAACGCGAGGAGGCTATTCAAATTTTAAAGCAGTCTGAGC  
GATATGGTGCAGGCTCAGACGTCTCATGGTCCGACACTCGAAGGACTTTGCGCAAGGACCATCGTGGG  
AAAGCGGATCTCTTTTGGAGAGGGAAGAGAAAGAGAAACTGTTTAAATGAGCACATCGAAGCCCTTACAAA  
GAAGAAGAGGGAGCATTTAGACAGCTGCTTGACGAAACAAGCGCTATTACGTTGACCTCTACCTGGAAA  
GAGGTGAAAAAATCATTAAAGAGGACCCTCGCTGTATTAATTTCTAGTTCTGACCGCAAGAAGCAAC  
GGGAGTTCGAAGAGTACATCCGCGATAAGTACATCACTGCTAAAGCAGACTTTAGAACTCTGCTGAAGGA  
GACAAAATTTATAACTTACCGGTCTAAAAAATTGATTCAAGAGTCAGATCAGCATCTGAAAGACGTTGAG  
AAGATCTTGACAACGACAAACGGTACCTCGTGTGATTGCGTGCCAGAAGAGAGGAGGAAACTCATCG  
TGGCATACGTGGATGACCTGGACCGCGCGGACCTCCACCACCCCGACGGCATCCGAACCCACCCGGCG  
ATCTACAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR217424 representing NM\_001039474  
 Red=Cloning site Green=Tags(s)

```

MAERGGDGGEGERFNPGLRMAQQALRFRGPAPPNAVMRGPPPLMRPPPPFGMMRGGPPPPRPPFGRP
PFDPNMPPMPGGIPPPMGPHLQRPPFMPMPGAMPPPPGMMFPPGMPPGTAPGAPALPPTTEIWWEN
KTPDGKVVYYNARTRESAWTKPDGVKVIQQSELTPMLAAQAQVQAQAQAQAQAQAQAQAQAQAQAQAQA
AQQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQA
PSSTTATTTTATSVAQTVSTPTTQDQTPSSAVSVATPTVSVSAPAPTATPVQTVQPHPQTLPPAVPHSV
PQPAAAIPAFPPVMPPFRVPLPGMPIPLPGVAMMQIVSCPYVKTVATTKTGVLPGMAPPVPMIHPQVA
IAASPATLAGATAVSEWTEYKTADGKTYYYNRTLESTWEKPQELKEKEKLDEKIKEPIKEASEEPLPME
TEEEDPKEEPVKEIKEEPKEEMTEEEKAAQKAKPVATTPIPGTPWCVVWTGDERVFFYNPTTRLSMWR
PDDLIGRADVDKIIQEPHKKGLEDMKKLRHPAPTMLSIQKWQFSMSAIKEEQELMEEMNEDEPIKAKKR
KRDDNKDIDSEKEAAMEAEIKAARERAIVPLEARMKQFKDMLLERGVSAFSTWEKELHKIVFDPRYLLN
PKERKQVFDQYVKTAEERREKKNKIMQAKEDFKMMEEAKFNPRATFSEFAAKHAKDSRFKAIEKMKD
REALFNEFVAAARKKEKEDSKTRGEKIKSDFELL SNHHLDSQSRWSKVKDKVESDPTRYKAVDSSSMRED
LFKQYIEKIAKNLDSEKEKELERQARIEASLREREREVQKARSEQTKEIDREREQHKREEAIQNFKALLS
DMVRSSDVSWSDTRRTLKDRHWESGSLLEREEKEKLFNEHIEALTKKKREHFRQLLDETSAILTLSTWK
EVKKIIEKEDPRICKFSSDRKKQREFEYIRDKYITAKADFRTLLKETKFI TYRSKKLIQESDQHLKDVE
KILQNDKRYLVLDCVPEERRKLI VAYVDDLDRRGGPPPTASEPTRRSTK
  
```

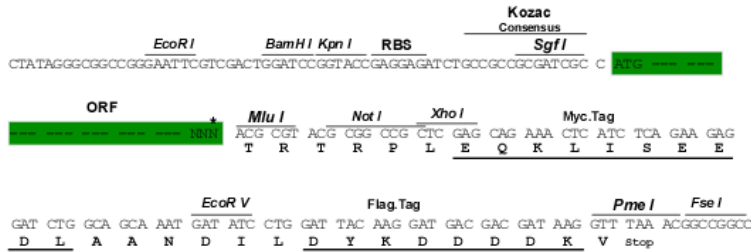
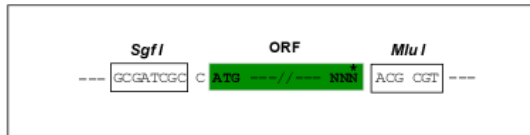
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



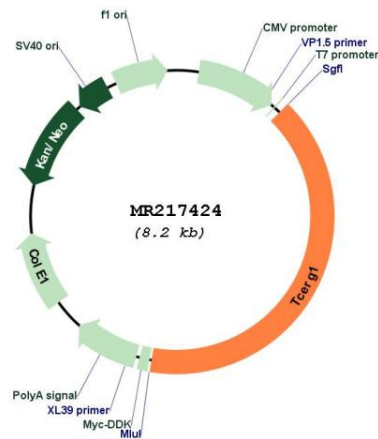
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001039474

**ORF Size:** 3300 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
<b>RefSeq:</b>	<u>NM_001039474.1, NP_001034563.1</u>
<b>RefSeq Size:</b>	4409 bp
<b>RefSeq ORF:</b>	3303 bp
<b>Locus ID:</b>	56070
<b>UniProt ID:</b>	<u>Q8CGF7</u>
<b>Cytogenetics:</b>	18 B3
<b>MW:</b>	123.8 kDa
<b>Gene Summary:</b>	Transcription factor that binds RNA polymerase II and inhibits the elongation of transcripts from target promoters. Regulates transcription elongation in a TATA box-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR217424